DJI AGRAS T-16
PRE/POST FLIGHT CHECKLIST
PERFORMED BEFORE & AFTER EACH FLIGHT
Version 1.0 - May 2022

PIC	FAA #	Date
Observer	Location	UAS Model & Registration #

Authorization for flight in restricted airspace (Required for flight in restricted airspace only, others N/A)

Authorized by: _____ Title: _____

A. Pre-Start Checklist

IMPORTANT! Complete all checklist items in the order that they are presented. If you cannot check off an item STOP! and correct the problem before continuing.

Number	Item	Acceptable Condition	Check if Satisfactory
1	Currency	PIC and observer are current	
2	Federal and State Regulatory Compliance	Ensure that your operations do not violate any applicable laws or regulations, and that you have obtained all appropriate prior authorizations. Consult the relevant government agency or authority, or your lawyer before flight to ensure you comply with all relevant laws and regulations	
3	Documentation	All required documents on hand: ● Alpha Drones USA Part 137 LOA ● Aircraft Registration Certificate ● Certificate of Insurance ● Alpha Drones USA Operations Manual for Agricultural T-16 ● Remote Pilot in Command FAA UAS Remote Pilot License ● 2nd Class Medical Certificates ● Alpha Drones USA Company Badge (optional) ● Applicator License	

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4	Emergency Equipment	All required emergency equipment on hand and in proper working condition ● Fire Extinguisher ● Spill Container ● Nitrile Gloves	
5	Maintenance Records	Check maintenance log to determine aircraft readiness	
6	Airspace	Unrestricted airspace or flight authorized. Do not operate any parts of the aircraft indoors.	
7	Airspace	Potential obstructions identified, area clear of obstacles and bystanders	
8	Airspace	Do not fly at altitudes above 98 ft (30 m).	
9	Weather	Visibility; >=3 miles/500 ft. AGL, Wind <=15mph, Precip. - None; temperatures between 32° to 104° F (0° to 40° C)	
10	Functional Test	Perform functional test	
11	UAS Airframe/Props	No structural defects visible	
12	UAS Battery	Sufficient for intended flight, not less than 75%	
13	Controller Battery	Sufficient for intended flight, not less than 75%	
14	Display Device Battery	Sufficient for intended flight	
15	Memory Card	Installed, sufficient memory space available for flight	
16	Observer	Present, briefed and ready (Only if designated, otherwise N/A)	
17	Camera Gimbal Lock	Removed	
18	Display Device	On	
19	Controller Power	On	
20	UAS Power	On	
21	UAS Status Lights	Flashing Green	

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22	Camera Check	FPV camera view normal	
23	Compass Calibration	Compass calibrated for current location **COMPASS CALIBRATION PROCEDURES IF REQUIRED** Choose an open space to carry out the following procedures. It is recommended to calibrate the compass with an empty tank. 1. Go to the app and tap Perform an Operation to enter Operation View. Tap the Aircraft Status Bar at the top of the screen and select Calibration in the Aircraft Status List, then follow the on-screen instructions. 2. Hold the aircraft horizontally and rotate it 360 degrees around a vertical axis until the Aircraft Status Indicators change to solid green and the display goes to the next step in the app. 3. Hold the aircraft vertically, with its nose pointing upward, and rotate it 360 degrees around a vertical axis.	
24	Visual Inspection	Ensure that any object attached or carried by the unmanned aircraft is secure and does not adversely affect the flight characteristics or controllability of the aircraft	
25	Flight Limits Set	Refer to T16 User Manual and Operations Manual for Altitude restrictions.	
26	Flight Mode Set to GPS	Controller mode switch in "P", display status GREEN - RTF	
27	Take Off Location	Clear for >=25 ft. radius, no overhead obstructions	
28	Briefing	Brief all operators and observers on operating conditions, emergency procedures, contingency procedures, roles and responsibilities, and potential hazards	

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B. Motor Start Checklist

Number	Item	Acceptable Condition	Check if Satisfactory
1	UAS Motor Start	UAS motors start and run at idle, no abnormal noise	
2	Home Point	Home Point Set	
3	Hover Check	Flight and Camera Gimbal control responses normal	
4	Flight Telemetry	Telemetry Normal (Bat, Alt, Dist, etc.)	

READY FOR FLIGHT
Notes:

C. Landing Checklist

Number	Item	Acceptable Condition	Check if Satisfactory
1	Landing Location	Clear for >=25 ft. radius, no overhead obstructions	

D. Post-Flight Checklist

Number	Item	Acceptable Condition	Check if Satisfactory
1	UAS Power	Off	
2	Controller Power	Off	
3	Display Device Power	Off	
4	Camera Gimbal Lock	Installed	
5	Memory Card	Remove if image download is desired. If flying for	

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		immediate media delivery, ensure imagery is presented to the designated individual.	
6	Batteries	Removed	
7	Fluids	Removed from tank, and comply with state and local guidelines on disposal and containment.	
8	Aircraft	Clean and dry off any moisture	
9	Aircraft	Inspect for damage. If damage is found, use Aircraft Maintenance Reporting Form.	
10	Propellers	Inspect after flight	

E. Return to Base

1	Batteries	Place on Charger when returning to charging station	
2	Paperwork	Complete any forms not completed prior to flight	

_____   _____
RPIC Printed Name   Date

_____   _____
RPIC Signature   Pilot Certificate Number

THIS COMPLETED CHECKLIST MUST BE KEPT WITH AIRCRAFT AT ALL TIMES